

PRODUCT
S•COM

DESCRIPTION
STEREO COMPRESSOR

SERIES
S•CLASS

CATEGORY
SIGNAL PROCESSING

TYPE:
SIGNAL
PROCESSORS



GENERAL DESCRIPTION

The Samson S•Com is a one rack space, dual channel dynamics processor optimized for recording, live sound reinforcement systems, DJ set-ups and commercial installations. The S•Com is a complete dynamics processing solution offering two channels of full function Compressor, Expander/Gate, Spectra and Enhancer. S•Com's convenient meters provide instant status of important gain management settings.

FEATURES

- > Full featured, dual channel dynamics processor including Compressor/Limiter, Expander/Gate, Spectra and Variable Enhancer.
- > SKD (Smart Knee Detector) switches from Soft to Hard Knee based on the level of input signal.
- > AEG (Automatic Envelope Generator) mode constantly adjusts the Compressor's Attack and Release times based on input signal. Manual adjustment of Attack and Release time is also facilitated.
- > 12 Segment LED Input/Output Meter, plus 12 Segment LED Gain Reduction Meter.
- > External Keying with Key Listen Switch available on front panel.
- > Adjustable Enhancer to restore high-end loss resulting from heavy gain reduction.
- > Expander/Gate with variable Threshold control and switchable Fast and Slow Release time.

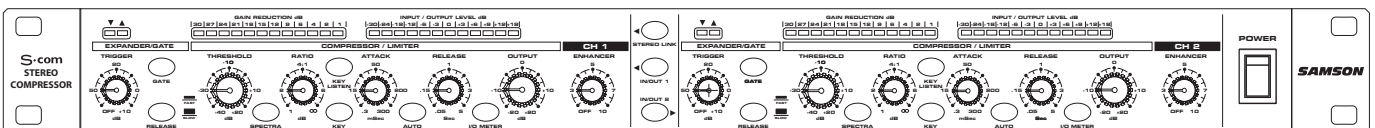
- > Gate function can be switched from hard off to light Downward Expander.
- > Gate Open and Closed LED's.
- > Spectra circuit enabling mid-high frequency contour for removing sibilance.
- > Advanced circuit design, utilizing low noise operational amplifiers and high quality VCAs.
- > Stereo Link Switch.
- > Servo balanced inputs and outputs on XLR and 1/4" connectors.
- > Switchable +4 and -10 operating levels.
- > High quality 41 position detent pots and backlit switches.
- > Three-year extended warranty.

ARCHITECT'S & ENGINEER'S SPECIFICATIONS

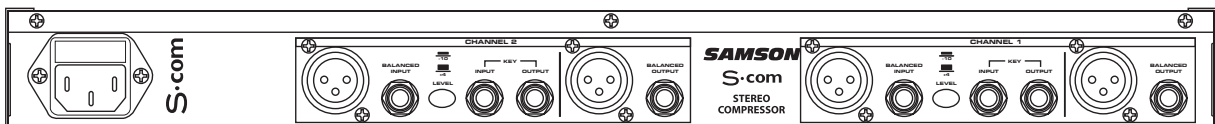
The S•Com shall be a 2 channel compressor/limiter. It shall have XLR and 1/4 inch inputs and outputs with a +4 / -10 operation output level switch. Each channel shall have a 1/4 inch key input and 1/4 inch key output. A Key enable and Key Listen switch will also be available on the front panel. Each channel shall have an expander/gate with a switchable Release time, variable Threshold control, and gate open/close indicator. The compressor controls shall be Threshold, Ratio, Attack, Release, and Output level. A Spectra switch for removing sibilance shall be on the front panel. An Auto switch will be available for automatic attack and release time settings.

continues>

FRONT PANEL



BACK PANEL



PRODUCT SPECIFICATION SHEET



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S•COM SPECIFICATIONS

System Specifications

Frequency Response 20Hz to 20kHz + - 0.5 dB
 Dynamic range..... 95 dB, un-weighted, 22 Hz to 22 kHz
 THD 0.008 % typ. @ +4 dBu, 1 kHz
 Crosstalk..... 90dB, 22 Hz to 22 kHz
 Detector..... RMS

Expander/Gate

Trigger range variable (Off to +10 dB)
 Attack..... <1 ms per 50 dB
 Release..... variable (Slow: 100ms / 1dB, Fast: 100 dB / 100 ms)

Compressor Section

Threshold..... -40 dB to +20 dB
 Ratio variable (1:1 to ∞:1)
 Manual Attack Time variable (0.3 ms / 20 dB 300 ms / 20 dB)
 Manual Release Time variable (0.05 to 5 Sec)
 Output gain variable (-20 to +20 dB)

Function Switches

Gate Gate or Expander
 Release..... Fast/slow
 Enhancer Off to 1.0
 Key..... Switches the detector section to external key input.
 Auto Sets automatic attack and release times - program dependent
 I/O Meter Switches the Input/Output meter to read input or output level.
 Stereo Link..... Linking both channels for stereo operation. Channel 1 becomes master.
 Operating Level Changes the internal reference level from +4 dBu to -10 dBV.

Meters & LED's

Gain Reduction 12 segment LED display: 1/2/4/6/9/12/15/18/21/24/27/30 dB
 Input/Output level..... 12 segment LED display: -30/-24/-18/-12/-6/-3/0/+3/+6/+9/+12/+18 dB
 Expander/Gate Threshold..... 2 LED's under and over signal window
 Function switch LED indicator in each

ARCHITECT'S & ENGINEER'S SPECIFICATIONS (continued)

Each channel shall have a variable Enhancer control to bring back the high frequencies lost do to heavy compression. Full LED Gain Reduction and Input/Output metering will be on both channels with a I/O meter switch to select input or output viewing on the meter. The unit shall have front panel In/Out switches and a Stereo Link switch. A standard IEC power cable shall be provided to connect to AC power.

Signal Input

Connectors..... XLR and 1/4" TRS jack
 Impedance 20k Ohm balanced, 10k Ohm unbalanced
 Nominal Operating Level..... Selectable +4dBu/-10 dBV
 Max. Input Level +21 dBu, balanced and unbalanced
 CMRR..... Typ. 40dB, >55dB @ 1kHz

Signal Output

Connectors..... XLR and 1/4" jack
 Impedance 60 Ohms balanced, 30 Ohms unbalanced
 Max. Output Level..... +21 dBu, balanced and unbalanced

Key Input

Connector 1/4" jack
 Impedance >10 k Ohm
 Max. Input Level +21 dBu

Key Output

Connector 1/4" jack
 Impedance 2 k Ohm
 Max. Output Level..... +21 dBu

Power Supply

Mains Voltages/selectable USA/Canada: ~120 V AC, 60 Hz
 U.K./Australia: ~240 V AC, 50 Hz
 Europe: ~230 V AC, 50 Hz
 Fuse 100-120 V AC; 250 mA (slow-blow)
 200-240 V AC: 125 mA (slow-blow)
 Power Consumption 5 Watts
 Power inlet Standard IEC receptacle/with fuse

Size

Dimensions (H x L x D)..... 1 3/4" x 19" x 7 3/4"
 44.5mm x 482.6mm x 188mm

Weight

Net Weight 4.8 lbs (2.2 kg)
 Shipping Weight 7.5 lbs (3.4 kgs)

